

(54) METHOD AND DEVICE FOR MEASURING FLOW RATE OF GRANULE

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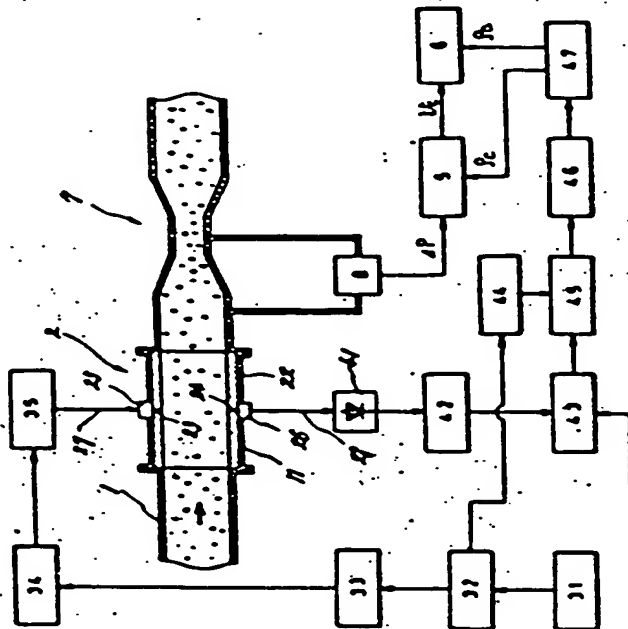
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PURPOSE: To obtain a flow rate measuring method of a granule particle body, having high measuring accuracy, by combining a measuring method using a solid-gas 2 phase flow meter of Venturi type, with a measuring method utilizing the resonance of a microwave.

CONSTITUTION: A microwave outputted from a voltage control oscillator 34 is transmitted to an electric conductor 23 through an attenuator 35, a coaxial electric conductor 27 and a connector 25, causes a resonance phenomenon in specified-frequency, is transmitted to a detector 41 by a coaxial electric conductor 28 through a connector 26 from an electric conductor 24, and resonance frequency is detected. An output of the detector 41 is converted to a signal showing density Δc of a pulverized coal flow by a linearizer 47. Difference pressure ΔP generated by a Venturi tube 7 is measured by a difference pressure measuring circuit 8, operation by the difference pressure ΔP and the density Δc is excited by an operator 5 a flow velocity V_c is derived, and operation is executed by an operator 6, by which a flow rate of pulverized coal is derived.



LEGENDE zu den Bibliographiedaten

(54) Titel der Patentanmeldung

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